

What is claimed is:

1. A protease inhibitor composition, comprising:  
a polymer barrier and a protease inhibitor, wherein the polymer barrier binds the protease inhibitor to a patient's skin and is substantially resistant to being washed or rubbed off.
2. The protease inhibitor composition of claim 1, wherein the polymer barrier comprises a Skinvisible® M-series or D-series polymer.
3. The protease inhibitor composition of claim 1, wherein the protease inhibitor comprises a glycine soja protein.
4. The protease inhibitor composition of claim 3, wherein the protease inhibitor further comprises oxidoreductases.
5. The protease inhibitor composition of claim 1, wherein the protease inhibitor comprises a dipalmitoyl hydroxyproline.
6. The protease inhibitor composition of claim 1, wherein the composition has an extended shelf-life.
7. A protease inhibitor having an extended shelf life for use in treating diaper dermatitis-like skin conditions comprising a cosmetic protease inhibitor that maintains its activity in emulsion for at least about one year.
8. The protease inhibitor composition of claim 7, wherein the cosmetic protease inhibitor comprises a glycine soja protein or dipalmitoyl hydroxyproline.

9. The protease inhibitor composition of claim 7, wherein the cosmetic protease inhibitor comprises a combination of glycine soja protein and oxidoreductases.
10. The protease inhibitor composition of claim 7, further comprising a sacrificial protease substrate.
11. The protease inhibitor composition of claim 7, further comprising a sacrificial lipase substrate.
12. The protease inhibitor composition of claim 7, further comprising a polymer barrier.
13. The protease inhibitor composition of claim 12, wherein the polymer barrier comprises a Skinvisible® M-series or D-series polymer.
14. A cosmetic protease inhibitor that is suitable for delivery as an emulsion for use in treating diaper dermatitis.
15. A method of treating diaper dermatitis comprising applying a composition comprising glycine soja protein to an affected area of a patient in need thereof.
16. A method of treating diaper dermatitis comprising applying a composition comprising dipalmitoyl hydroxyproline to an affected area of a patient in need thereof.
17. A method of formulating a diaper dermatitis treatment, comprising
  - (a) providing a polymeric system that can bind to a patient's skin;
  - (b) combining the polymeric system with glycine soja protein or dipalmitoyl hydroxyproline;
  - (c) adding a sacrificial protease substrate;

- (d) adding a sacrificial lipase substrate;
- (e) adding a pH buffering system; and
- (f) forming the mixture into a cream or a lotion for topical application.